

9. (Amended) An electrical machine according to claim 1, wherein the angle is equal to or below 30 degrees.

10. (Amended) An electrical machine according to claim 1, wherein at least a portion of one or more of the pole cores is substantially parallel to the axis of rotation.

12. (Amended) An electrical machine according to claim 1, wherein one or more pole cores have a portion arranged substantially perpendicular to the axis of rotation of the shaft.

14. (Amended) An electrical machine according to claim 1, wherein the rotor is circular.

15. (Amended) An electrical machine according to claim 1, wherein the stator further comprises a magnetic conductive end plate connected to said pole legs or cores.

17. (Amended) An electrical machine according to claim 1, wherein the number of pole cores equals the number of magnets or means for producing a magnetic field.

18. (Amended) An electrical machine according to claim 1, wherein the magnets or means for producing a magnetic field are located radially and equidistantly in the rotor.

19. (Amended) An electrical machine according to claim 1, wherein the magnets or means for producing a magnetic field are located on one side of the rotor facing ends of the pole cores.

20. (Amended) An electrical machine according to claim 1, wherein the magnets or means for producing a magnetic field are located on the outer periphery of the rotor.

22. (Amended) An electrical machine according to claim 1, wherein magnets or means for producing a magnetic field are arranged on the rotor to fit substantially into a V-shape.

24. (Amended) An electrical machine according to claim 1, wherein the machine is a synchronous one phase machine.

25. (Amended) An electrical machine according to claim 1, wherein the magnets or means for producing a magnetic field are permanent magnets.

26. (Amended) An electrical machine according to claim 1, wherein the magnets or means for producing a magnetic field are electromagnets.

27. (Amended) An electrical machine according to claim 1, wherein a winding or coil is formed by a flat concentrated coil.

28. (Amended) An electrical machine according to claim 1, wherein the pole cores are assembled of a magnetic conducting material.

30. (Amended) An electrical machine according claim 1, wherein the machine is a generator which may be provided with a mechanical force/power via said shaft to generate an electrical power via said windings.

32. (Amended) A multiphase machine, wherein a number of phases is obtained by arranging a corresponding number of one phase machines according to claim 24.

35. (Amended) An electrical machine according to claim 1, wherein the pole cores are formed by U-shaped elements, said elements being arranged in the stator so that one pole core is formed by two adjacent legs of two U-shaped elements.

37. (Amended) An electrical machine according to claim 1, wherein the pole cores are made of a magnetic conducting material, and wherein the pole cores are arranged on a stator plate made of a material having a low magnetic conductivity.

38. (Amended) An electrical machine according claim 1, wherein the width of a pole core is substantially equal to the distance between two successive pole cores.

40. (Amended) An electrical machine according to claim 1, wherein a first stator is arranged opposite to and facing a first side of the rotor, and a second stator is arranged opposite to and facing the other side of the rotor.